

IN THE CLAIMS

Claims 1-11. (Canceled)

12. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position said method comprising the steps of:

- supplying a sand storage tank filled with a well dried mason's sand said storage tank having a sand outlet;

- supplying a compressed air source in fluid tight connection with said sand outlet;

- mixing said sand and said compressed air in a mixing chamber;

- delivering said sand and air mixture to an injector gun via an elongate fluid tight hose said gun further having a gun nozzle;

- drilling a hole in said slab to be leveled;

- attaching said gun nozzle to said drilled hole;

- operating said injector gun in bursts so as to provide compressed air and sand;

- lifting with air pressure, momentarily, said slab to a height above the desired final level with the compressed air supplied by said bursts, such that a settle cavity filled with compressed air sufficient to raise said slab above the ground is created between said slab and said ground until said compressed air escapes from said settle cavity allowing said slab to drop back in contact with said ground such that said slab is supported by said ground and said sand;

- leveling said ground with said well dried mason's sand carried by said compressed air in said burst such that said well dried mason's sand may move freely within said settle cavity momentarily created by said compressed air; and

- repeating said lifting and leveling steps until said slab is at the desired level and resting upon said well dried mason's sand.

13. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired

position as in claim 12 further comprising the step of supplying a compressed air bleed valve between said compressed air source and sand outlet.

14. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 13 further comprising the step of operating said compressed air bleed valve to release excess pressure.

15. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 14 further comprising the step of supplying a sand shutoff valve between said sand storage tank and said mixing chamber.

16. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 15 further comprising the step of adjusting said sand shutoff valve so as to control the flow of sand to said mixing chamber.

17. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position said method comprising the steps of:

- drilling a strategically placed hole in said slab;

- supplying a sand storage tank filled with sand said storage tank having a sand outlet;

- supplying a compressed air source in fluid tight connection with said sand outlet;

- mixing said sand and said compressed air in a mixing chamber said mixing chamber having a smaller air source hose fitted inside of a larger diameter sand outlet such that said smaller air source extends into the center section of said larger diameter sand outlet so as to create a venturi effect;

- delivering said sand and air mixture to an injector gun via an elongate fluid tight hose said injector gun further having a gun nozzle for connection with said hole;

attaching said gun nozzle to said drilled hole; and
operating said injector gun so as to provide compressed air and well dried mason's sand;

lifting with air pressure, momentarily, said slab to a height above the desired final level with the compressed air supplied by said injector gun, such that a settle cavity filled with compressed air sufficient to raise said slab above the ground is created between said slab and said ground until said compressed air escapes from said settle cavity allowing said slab to drop back in contact with said ground such that said slab is supported by said ground and said sand;

leveling said ground with said well dried mason's sand carried by said compressed air such that said well dried mason's sand may move freely within said settle cavity momentarily created by said compressed air; and

repeating said lifting and leveling steps until said slab is at the desired level and resting upon said well dried mason's sand.

18. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 17 further comprising the step of supplying a sand shutoff valve that may be adjusted so as to control the flow of sand to said mixing chamber.

19. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 18 further comprising the step of drilling a second strategically placed hole in said slab; moving said gun nozzle to said second hole and repeating said operating step.

20. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 19 further comprising the step of patching said holes to match said slab.

21. (Previously presented) A method of lifting and leveling a slab by using compressed air to lift said slab and dried sand to stabilize and hold said slab in a desired position as in claim 20 further comprising the step of supplying a compressed air bleed valve between said compressed air source and sand outlet so as to bleed of excess air.

22. (Previously presented) A method of lifting and leveling a slab comprising:
drilling a hole through the slab to be leveled;
mixing sand and compressed air in a venturi chamber to create a compressed air and sand mixture;

introducing the compressed air and sand mixture in a first burst underneath the slab via a nozzle that is inserted into the hole in a manner to create an airtight seal between the nozzle and the slab, the nozzle not penetrating into ground underneath the slab, wherein the compressed air of the mixture of the burst raises the slab upward to form a cavity between the slab and ground and the sand of the mixture of the burst partially fills the cavity; and

repeating the introduction of the compressed air and sand mixture in one or more additional bursts underneath the slab until the slab is at the desired level and resting upon the sand.

23. (Previously presented) The method of claim 22 further comprising drilling a second hole through the slab, inserting the nozzle into the second hole in a manner to create an airtight seal between the nozzle and the slab, and introducing the compressed air and sand mixture in a burst underneath the slab through the nozzle.

24. (Previously presented) The method of claim 22 further comprising patching the hole.

25. (New) A method of lifting and leveling a slab, comprising:
introducing a pressurized fluid media underneath the slab so that the introduced pressurized fluid media lifts the slab upward to form a cavity under the slab; and

introducing dried material different from the pressurized media into the cavity to at least partially fill the cavity.

26. (New) The method of claim 25, wherein introducing dried material comprises introducing a dried granular material.

27. (New) The method of claim 26, wherein the dried granular material comprises dried masons sand.

28. (New) The method of claim 25, comprising introducing dried material until the slab is at the desired level and resting upon the dried material.

29. (New) The method of claim 25, wherein the pressurized fluid media comprises compressed air, and the compressed air and dried material are introduced simultaneously in a mixture.